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GRUMMAN

1111 STEWART AVENUE
BETHPAGE, NEW YORK 11714

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National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Subject: NASA Contract NAS5-21811, Virgin Islands ERTS-1 Experiment #589,
PRO 45, Type I Progress Report for the period April and May 1973

Gentlemen:

During the period of April and May 1973 we resolved software problems with GSFC which enabled us to process the precision CCT tapes. In addition GSFC supplied a bulk computer print out of the island of St. Thomas, MSS Bands 4, 5, 6 and 7. Precision digital data print outs for each of the harbor test stations in the 4 MSS bands indicated that considerable radiometric data had been lost when compared with the bulk data. Consequently we reviewed very carefully the bulk data print outs in an effort to use these data for correlation with the ground stations in order to benefit from the greater radiometric fidelity and still locate each computer print out character on a map with acceptable accuracy. A simple grid system which enables scaling the computer print out to the USC&GS chart was developed.

Progress during April and May is summarized below:

1. Processed both precision and bulk CCT tapes in the Grumman LM Data Reduction Station.
2. Developed a simple means which will enable correlation of bulk data with in-situ data for each of the test stations.
3. Partially reduced optical measurements of test panels and harbor water.
4. Received from our Co-Principal Investigator, Marine Resources Development Foundation (Dr. D. Olsen) rough draft summary report of the harbor water quality in-situ measurements.

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Division

(E73-10626) VIRGIN ISLANDS ERTS-1
EXPERIMENT NO. 589 Progress Report,
Apr. - May 1973 (Grumman Ecosystems
Corp., Bethpage, N.Y.) 2 p HC \$3.00

N73-24386


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5. Plotted tidal current data for October 17th (Satellite pass).
6. Correlation of ERTS data with in-situ water quality data appears obvious on a qualitative basis. During the next reporting period we should have some results on quantitative correlation.

Yours truly,

GRUMMAN ECOSYSTEMS CORPORATION



W. C. Coulbourn
Applied Technology

WCC:jl

cc: R. D. Phillips, NASA Goddard Space Flight Center
E. F. Szajna, NASA Goddard Space Flight Center
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